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(54) CARBOXYPEPTIDASE B-LIKE ENZYME ORIGINATED FROM MICROORGANISM

(57) Abstract:

PURPOSE: To obtain a carboxypeptidase B-like enzyme suitable for the production on industrial scale by culturing a microbial strain belonging to genus Chaetomium.

CONSTITUTION: A microbial strain belonging to genus Chaetomium and capable of producing carboxypeptidase, e.g. Chaetomium sp. F-33 (FERM P-

11711) is cultured and the objective carboxypeptidase B-like enzyme accumulated in the bacterial cell is collected therefrom. The enzyme hydrolyzes and isolates the terminal arginine or lysine of a peptide having arginine or lysine as carboxy terminal. It has an optimum pH of about 8.5 (in tris-HCl buffer solution), an optimum temperature of 55°C, a stable pH range of 7-10 (25°C, 9hr), a thermal stability to retain 100% activity at 4°C and pH 7.5 after 1 year and 90% activity at 55°C after 5hr and a molecular weight of about 450,000.

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